

ABSTRACT

5       **[00036]**   A kinematic electrode mount is provided for an ion implanter in  
which an electrode insert member having an electrode body portion which  
defines an aperture, is inserted into an electrode support frame. In one  
embodiment, a first kinematic alignment pin of the insert member engages a  
first, groove-shaped kinematic alignment surface of the electrode support  
frame to align the first alignment pin in two orthogonal directions relative to  
the electrode support frame. In addition, a second kinematic alignment pin of  
10   the insert member engages a second kinematic alignment surface of the  
electrode support frame to align the insert member in a rotational orientation  
relative to the electrode support frame. A plurality of flanges of the insert  
member engage the electrode support frame to retain the insert member in  
the aligned position and to electrically couple the electrode insert member to  
15   the electrode support frame. A spring positioned between the electrode  
insert member and the electrode support frame biases the electrode insert  
member in the aligned and retained position relative to the electrode support  
frame.